

# Turbulent Tube Flocculator (FReTA II)

## Challenges

June 13, 2013

The goal for this team is to study turbulence so that we can extend our laminar flow models to another hydraulic regime. Research will likely focus on the effect of various energy dissipation rate regimes on overall performance.

1. Design a turbulent flow flocculator that best mimics full scale flocculation
  - (a) Must include a camera to obtain floc sizes
  - (b) Must consider ease of varying constrictions in the apparatus to account for various energy dissipation rates
2. Devise a method to provide a minimum flow rate that will produce turbulence
3. Consider building